

**WHAT IS CLAIMED IS :**

1. A UV-setting ink-jet ink comprising color materials, UV-polymeric compound, and photo-induced polymerization initiator in a water-based medium, wherein a concentration of oxygen dissolved in the ink is 0.1 to 2 ppm at 25°C.

2. An ink-jet recording method for forming images by ejecting UV-setting ink-jet ink which dissolves oxygen of 0.1 to 2 ppm in the ink at 25°C onto a base material and applying ultraviolet lights to the ink on the base material.